

Weekly report

1 Done

1.1 Vast Preview Video (Fast Forward Video)

The script is:

Analyzing interpersonal relationship is meaningful. But sharing graph data may leak sensitive information. Various structure features make privacy vulnerable. To provide comprehensive protection, we present GraphProtector, a visual interface that combines multiple privacy preserving protector together.

1.2 DP4G (Differential Privacy for Graphs)

I went to Yuquan campus to consult Prof Ji.

- *How to facilitate users to define the parameter ϵ ?*
Evaluate privacy and utility together. For privacy, the exposure possibility of each node can be calculated according to ϵ . For utility, the change of edges, and the query results should be taken into consideration.
- *Is differential privacy approach effective for graphs?*
Traditional differential privacy approaches are effective with the hypothesis that data records are irrelative. However, records in graph data (nodes) are relative with each other. Therefore, original approaches are incompetent. To preserve privacy, some studies reconstruct graphs and add noise, which are improved version of differential privacy approaches.

1.3 Rating for Netease

1.4 Preparing for going abroad

US visa and Germany visa.

2 Progress

Item	Deadline	Current progress	Remark
VAST R2 and preview video	8.1	PPT is done.	
Courseware revision	9.1	Sent the current version by email.	
Go abroad	11.18	DS-2019 is done.	
Privacy program	10.31	Surveying.	